



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

## CSI-LBRCE STUDENT BRANCH

### Report on “5G Technologies (A New Era In Communication)”

**Type of Event:** Workshop

**Date/ Duration:** 7<sup>th</sup> September 2018 / 1 Day

**Resource Person(s):** Dr. Koteswararao Kondepu, Research Fellow at Scuola Superiore Sant' Anna, Pisa, Italy.

**Name of the Coordinator(s):** Dr. S. Naganjaneyulu Professor and CSI- LBRCE Student branch Counselor, IT Dept., LBRCE.

Mr. P. Vamsi Naidu, Assistant Professor, CSE, LBRCE

Mr. Ch. Samba Siva Rao, Assistant Professor, IT, LBRCE

Mr. K.Ravi Kumar, Asst.Professor, Dept of ECE

Ms. M. Hema Latha , Asst. Professor, Dept of MCA

**Target Audience:** III B.Tech Students of CSE, IT, ECE and 2<sup>nd</sup> year MCA

**Total no of Participants:** 432 (CSE- 129, IT-53, ECE-A,B,C Sections: 191 and MCA -59)

#### **Objective of the event:**

This talk gives overview of different challenges faced and opportunities offered by the 5G. It designates the different standard development organizations and commercial organizations that are working towards commercial product. It also shows different use cases that are going to address the new 5G era.

#### **Outcome of the event:**

After completion of this workshop participants will:

- Understand basic network communication in 5G
- Learn valuable security principals involved in 5G
- Understand proper procedures for data confidentiality and availability.

#### **Description about the event:**

The resource person **Dr. Koteswararao Kondepu, Scuola Superiore Sant'Anna, Pisa, Italy** started his explanation with the basic Wireless Network Architecture and the flow of data packets in that architecture. Fifth-generation wireless, or 5G, is the latest iteration of cellular technology, engineered to greatly increase the speed and responsiveness of wireless networks. With 5G, data transmitted over wireless broadband connections are able to travel at the rates as high as 20 Gbps, by some estimates exceeding wire line network speeds, as well as offer latency of 1 ms or lower for uses that require real-time feedback. 5G will also enable a sharp increase in the amount of data transmitted over wireless systems due to more available bandwidth and advanced antenna technology. Various open source tools and test beds are explained. Given a demo on how to initialize nodes and do experiment on test beds.

The recent works on 5G projects handled by their team are discussed and finally research directions in the area of 5G technologies are shared with the participants.

### Feedback/ suggestions

1. I like this workshop very much because of the content delivered by the Resource Person.
2. I got some insightful knowledge about upcoming fifth generation mobile communication standards.
3. I am feeling so happy to be a part of this workshop.

### Photographs:



**Dr. Koteswararao Kondepu, Research Fellow at Scuola Superiore Sant' Anna, Pisa, Italy addressing students**



**Addressing the students by Dr. Koteswararao Kondepu, Research Fellow at Scuola Superiore Sant' Anna, Pisa, Italy**



**Students in the Work Shop on "5G Technologies(A New Era in Communication)**

**Photographs:**



**Felicitation to Resource Person  
By**

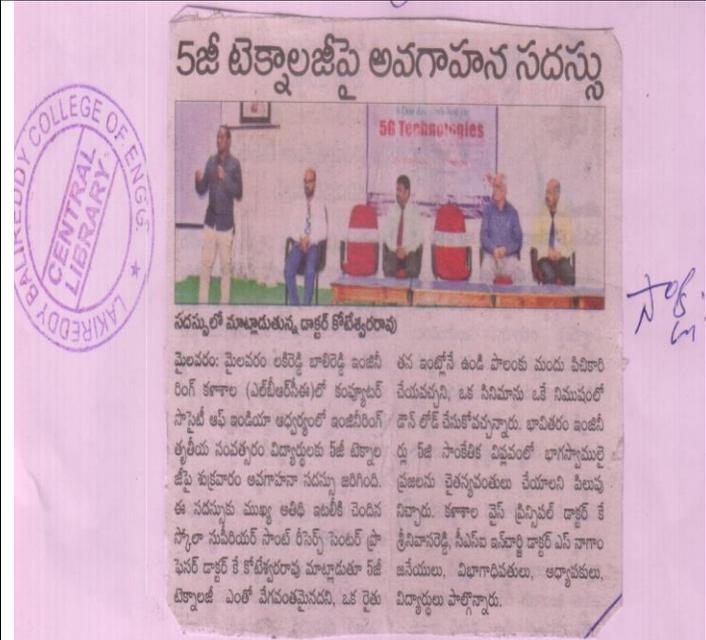
**Dr.P.Lachi Reddy, Dr.Ch.Venkata Nararya Reddy and  
Dr.S.Naganjaneyulu**

**Vote of Thanks by Dr.S.Naganjaneyulu  
Counselor – CSI-LBRCE Student Branch  
&  
Professor Department of IT**

**Press Clippings:**



తెలుగు భాష - 08/09/2018



నాణ్యత 08/9/20